

Patent Claims

1. Means for the at least partial production or reproduction of biological parts, especially of organs for living being in which a carrier with a active ingredient complex is coated or which contains a active ingredient complex, and the active ingredient complex has the following components, which are different from one another and are specifically suited to each biological part to be produced, in the form of at least one structural component on the basis of extracellular material specifically suited to the cells of each of the biological parts to be produced, at least one recruiting component, at least one adhesion component, and at least one growth and/or maturation component.
2. Means according to claim 1, characterized by the fact that the carrier consists of polymer, ceramic, metallic, or nonmetallic carrier materials.
3. Means according to claim 2, characterized by the fact that the polymer or ceramic carrier materials are selected from the group consisting of hydroxylapatite, calciumphosphate, aluminum oxide, and polylactate materials, as well as ionomer cement.
4. Means according to claim 2, characterized by the fact that the metallic carrier material is selected from a titanium or titanium alloy.
5. Means according to claim 2, characterized by the fact that the nonmetallic carrier material is selected from carbon.
6. Method of use of the means according to one of claims 1 to 5 for production, reproduction, or stabilization of vertebral structures.
7. Method of use of the means according to one of claims 1 to 5 for treatment of osteoporosis, pseudoarthrosis, and bone defects, for filling large bone defects, and for healing endoprostheses.

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